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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/552,664	10/11/2005	Masaji Hirota	2185-0778PUS1	2594
2292	7590	08/12/2009	EXAMINER	
BIRCH STEWART KOLASCH & BIRCH PO BOX 747 FALLS CHURCH, VA 22040-0747				STALDER, MELISSA A
ART UNIT		PAPER NUMBER		
				1793
NOTIFICATION DATE			DELIVERY MODE	
08/12/2009			ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

mailroom@bskb.com

Office Action Summary	Application No.	Applicant(s)	
	10/552,664	HIROTA ET AL.	
	Examiner	Art Unit	
	MELISSA STALDER	1793	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on ____.
- 2a) This action is **FINAL**. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-9 is/are pending in the application.
 - 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) Claim(s) ____ is/are allowed.
- 6) Claim(s) 1-9 is/are rejected.
- 7) Claim(s) ____ is/are objected to.
- 8) Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on ____ is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. ____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. ____ .
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)	5) <input type="checkbox"/> Notice of Informal Patent Application
Paper No(s)/Mail Date ____ .	6) <input type="checkbox"/> Other: ____ .

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kuroda (JP 11-349579) in view of Schultz (US 6,090,956).

Kuroda teaches an epoxy made with a tungsten compound, hydrogen peroxide, a tertiary amine, and phosphoric acid. Schultz teaches an epoxide made from molybdenum or tungsten, the use of hydrogen peroxide, and a pyridine N-oxide (col. 7, line 27- col. 8 line 24). It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the process of Schultz with the process of Kuroda because Kuroda teaches that the use of phosphoric acid increases the consumption of hydrogen peroxide in the reaction (0020-0021). Schultz teaches that the N-oxide increases the activity of the activator precursor and that the pyridine N-oxide is formed from the corresponding tertiary amine (col. 6, lines 1-34).

Regarding claim 2, Kuroda teaches the use of tungstic acid, phosphotungstic acid sodium, tungstosilicic acid, tungstosilicic-acid sodium, sodium tungstate, phosphotungstic acid, and tungstosilicic acid.

Claims 4 and 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kuroda (JP 11-349579) in view of Schulz (US 6,090,956) as applied to claims 1-6 above, and further in view of Venturello (US 4,562,276). Kuroda does not teach the use of tungsten metal. Venturello teaches a peroxide composition which may contain tungsten metal (col. 3, lines 38-44). It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the catalyst of Kuroda with the tungsten taught in Venturello because Venturello teaches that it is known in the art that organo-metal complexes of molybdenum and tungsten are catalysts suited for epoxidation of olefinic bonds with hydrogen peroxide and heterocyclic nitrogen compounds (col. 2, lines 26-33).

Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kuroda (JP 11-349579) in view of Schulz (US 6,090,956) in view of Hancock (US 5,367,032). (JP 11-349579) (citations are to machine English translation of corresponding JP 4013334). Kuroda teaches an epoxy made with a tungsten compound, hydrogen peroxide, a tertiary amine, and phosphoric acid. Hancock teaches the conversion of epoxide to a carbonyl compound using hydrogen peroxide and a phosphorus acid and a catalyst component with tungsten or molybdenum (abstract). The epoxide can be an olefin. The pH is preferably from 0 to 2. It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the catalyst of Kuroda with the

conversion reaction of Hancock because it is known in the art that hydrogen peroxide is an oxidizing agent that is capable of creating a carbonyl compound.

Regarding claim 2, Kuroda teaches the use of tungstic acid, phosphotungstic acid sodium, tungstosilicic acid, tungstosilicic-acid sodium, sodium tungstate, phosphotungstic acid, and tungstosilicic acid.

Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kuroda (JP 11-349579) in view of Schulz (US 6,090,956) as applied to claims 1-6 above, and further in view of Venturello (EP 0 606 976). Venturello teaches the production of ketones by means of oxidation of a catalyst with secondary alcohols in the presence of hydrogen peroxide. It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the catalyst of Kuroda with the alcohol of Venturello because Venturello teaches the catalytic method of preparing ketones in the reaction with hydrogen peroxide and a secondary alcohol. Also, Venturello teaches that the catalyst can be prepared using a quaternary salt, phosphoric acid, and tungsten.

Response to Arguments

Applicant's arguments filed 04-01-09 have been fully considered but they are not persuasive. Applicant has only argued that the claims were not met as amended. The above rejections now encompass the amended claims.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MELISSA STALDER whose telephone number is (571)270-5832. The examiner can normally be reached on Monday-Friday, 8:00-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Melvin Curtis Mayes can be reached on 571-272-1234. The fax phone

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number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

MS
July 22, 2009

/Melvin Curtis Mayes/
Supervisory Patent Examiner, Art Unit 1793